

presented in this Standard Drawing has been prepared in accordance with recogniz libles and is for general use. It should not be used for specific application without sistonal examination and verification of its suitability and applicability by a licensed neer. Contents within the inher border line shall not be altered. Note to Designer: The information pi engineering princi competent profes professional engin 02

OVERHEAD SIGN NOTES:

Wind Loading: 90 MPH Velocity

Maximum Height: 50-0 from average surrounding terrain to the \pounds of the mast arm (Regardless of post height). The Tubular Overhead has been designed for site conditions which are level and neither elevated above the average surrounding terrain by more than the 50-0 height shown nor supported on a bridge.

Maximum difference between post heights for an individual frame = 5'-0.

The maximum sign panel overlap onto elbow shall not exceed 7'-0 from field splice.

The sum of the sign panel area plus the exit panel area shall not exceed the maximum area shown in table. All signs shall be placed within Sign Panel

For Standard pipe mast arms with lengths greater than 60'-0 an optional field splice will be permitted at the third points of mast arm length to facilitate hauling operations. All additional field splices in the Mast Arm proposed by the fabricator will not be allowed.

The Optional Shop Splice may not be used when the splice location is less than 5-0 above the top of base plate. Shop splice of pipe sections (other than shown) are not permitted without prior approval.

Drill and tap for $1\frac{1}{2}$ " chase nipples and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic. Install nipples on shoulder posts only.

Before any portion of the tubular frame is assembled in its final position, the Contractor shall demonstrate to the Engineer by preassembly or other approved methods that the span length of the frame in the no load condition is equal to $(\pm \frac{1}{2})$ inch) the field measured span length between foundations.

If the tubular frame is erected as one unit the frame shall be adequately suspended to avoid distortions or changes in span length between base plates.

The Field Splice surfaces shall be in full contact without gaps prior to the bolts being snug tightened and fully tensioned. The contact surface is the area defined by a 1%" radius around each bolt.

Provide electrical grounding at pole foundations per ADOT Standard Specification Section 732-3.03.

NOTES:

See SD 9.50 (2 of 5) for SECTION A-A See SD 9.50 (3 of 5) for SECTION B-B For General Notes see SD 9.20 (1 of 5) For Camber Diagram see SD 9,20 (3 of 5) For Foundation Details see SD 9.20 (2 of 5) Provide 10 inch diameter hole in center of column base plate to accommodate conduits For Frame and Hand hole Details see SD 9.20 (3 of 5) For Sign Support Details see SD 9.20 (4 of 5) For Overhead Light Details see SD 9.20 (5 of 5)

	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING	
TION 04/19 DATE	VARIABLE MESSAGE SIGN TUBULAR FRAME PLAN AND ELEVATION	DRAWING NO. SD 9.50 (1 of 5)